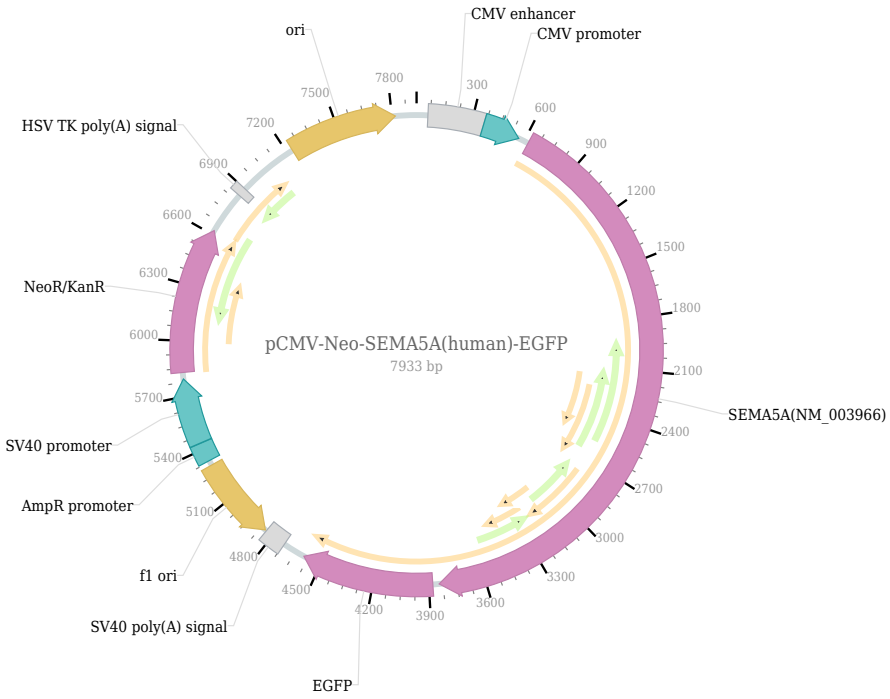
pCMV-Neo-SEMA5A(human)-EGFP

Vector ID	V020646
Accession ID	NM_003966.3
Antibiotic Resistance	Kanamycin
Length	7933 bp
Vector Type	Protein expression
Host	Mammalian cells

Product Information

Replication Origin	ori
Selection Marker	Neo/G418;EGFP
Copy Number	High copy number
Promoter	CMV
Fusion Tag	EGFP
Growth Strain(s)	DH10B
Growth Temperature	37℃
Expression Method	Transient
Comment	pCMV-Neo-SEMA5A(human)-EGFP is a mammalian expression plasmid encoding full-length human semaphorin-5A (NM_003966.3; 1,074 aa) fused at its C-terminus to EGFP via a GGGGSDPPVAT linker, giving a 1,324 aa fusion protein; expression is driven by the CMV enhancer/promoter with an SV40 poly(A) signal. An SV40-driven NeoR cassette provides G418 selection in mammalian cells; bacterial selection is kanamycin, with a high-copy ColE1 ori and an f1 ori.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 μl for 5 μg plasmid, and 100 μl for 100 μg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.